zehnder *janda* **towel radiator**
zehnder *universal* **towel radiator**
installation instructions

TOOLS REQUIRED

Screwdriver- Standard and/or Phillips

Electric Drill

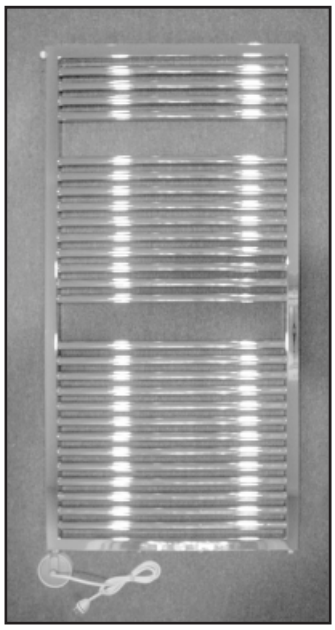
Allen Wrench (included)

Level (Optional)

Hammer

Pencil

NOTE: The **zehnder** *universal* is shown in this instructional - parts and installation of the **zehnder** *janda* is the same.



PARTS LIST

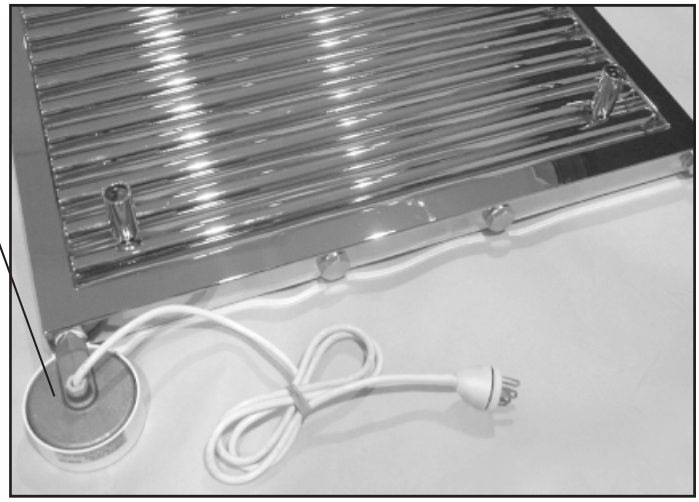
1 -Installation Kit with

- 4- Male/Female Mounting Brackets
- 1- Allen Wrench
- 1- Instructions

1 Infrared Programmable Controller

with mounting screw

Remove your Zehnder Towel Radiator from its box, and locate the installation kit. We make every effort to provide all parts for easy installation. However, some installations require specific anchors, such as for differing thicknesses of sheetrock, and should be provided by the installer. **USE CAUTION NOT TO STAND THE RADIATOR ON THE HEATING ELEMENT.** Assemble the tools and any special installation hardware.



READ ALL INSTRUCTIONS BEFORE USING THIS RADIATOR.

INSTALLATION

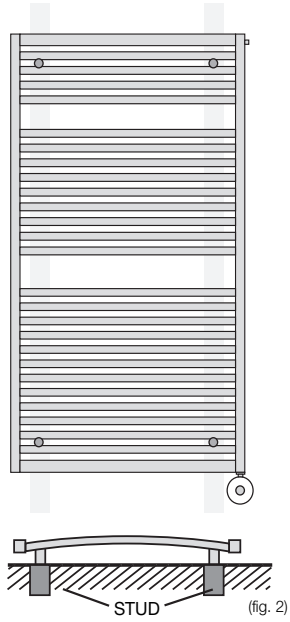
Step 1) Location - Determine where your Zehnder Towel Radiator will be installed. The locating of electrical service is your first step. All electrical service must be GFCI (ground fault circuit interrupted) compliant. Use with no greater than a 20 ampere branch circuit. Use only a professional electrician for any electrical service installation.

There are two (2) types of electrical installation:

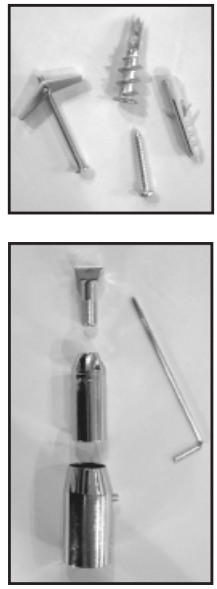
1) Plug-in to a standard grounded plug with a GFCI circuit. Requires outlet located within approximately 30 inches of heating element (normally on bottom right of unit). **DO NOT USE A 2 PRONG PLUG ADAPTER.**

2) Hard-wire directly to GFCI circuit using the Zehnder Towel Radiator hard-wire kit. Hard-wire box must be located directly behind the heating element, and Zehnder Towel Radiator must be positioned accordingly.

The infrared Programmable Controller should be located in line-of-sight with the infrared eye of the heating element. However, in most standard sized bathrooms and smaller rooms the IPC can be located almost anywhere within the room as long as there are no obstructions between the IPC and heating element.



(fig. 2)


(fig. 1)

NOTE: Your Zehnder Towel Radiator **MUST BE MOUNTED VERTICALLY,** with the heating element at the bottom. Failure to do this will result in damage to the unit.

Step 2) Determine method of anchoring mounting brackets.

There are 2 options for anchoring the brackets:

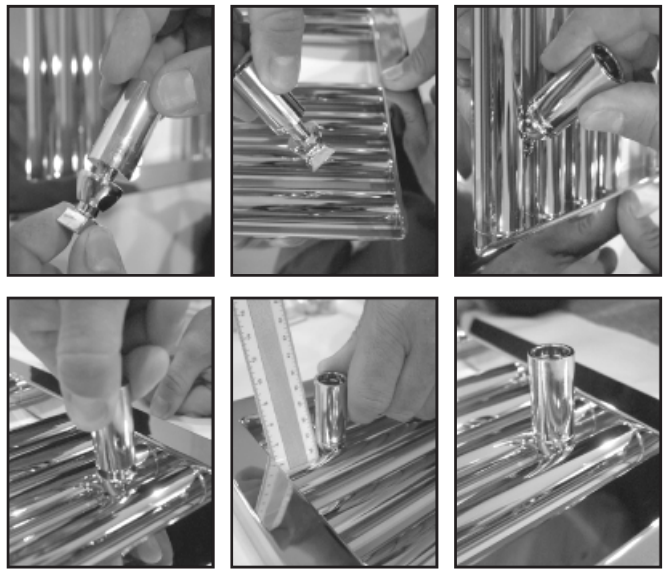
1) Cement/Tile/Block/Stone Anchors Those anchors are included with your installation kit. You will need a masonry drill sized 8mm (3/8").

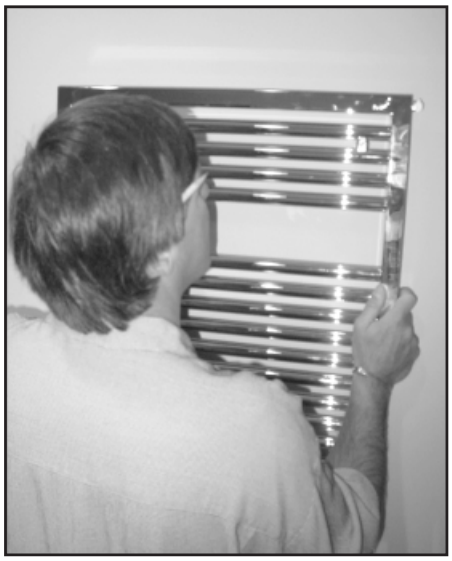
2) Sheetrock Anchors - There are several varieties. (fig. 1) Determine the appropriate anchor for the weight of your radiator and the thickness of your sheetrock. You will need an appropriate sized standard drill.

Step 3) Attach male anchor studs to your Zehnder Towel Radiator.

1) Loosen set screws in anchors and remove the male studs.

2) Unscrew the studs until almost separated. Insert between tubes of radiator at the corners, and twist to position them. Screw them firmly together, locking them into place. Refer to picture to see proper placing (fig. 2) (location can vary, depending on distance between your studs, etc.).





(fig. 3)

Step 4) Position your Zehnder Towel Radiator.

1) Keep electrical connection location in mind.

2) Lift radiator up and hold against wall in location desired. (fig. 3)

3) Place level on top of radiator, or across top two studs.

4) Holding radiator in place, and with radiator level, draw circles around all four (4) studs with pencil. (fig. 4)

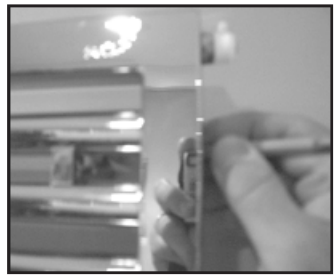
5} Set radiator down carefully.

6) Drill holes for appropriate anchors in middle of all four (4) circles. (fig. 5)

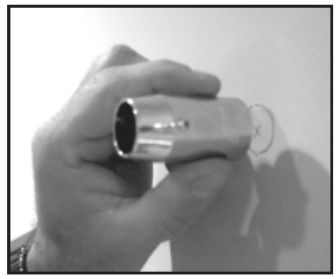
7) For cement anchors, set anchors with hammer and then attach the female stud with the enclosed lag bolts and washers. Center the studs in the penciled circles. For the sheetrock anchors, attach the studs with the appropriate anchor bolt and the enclosed washers.

8) Check level of top and bottom studs. The studs allow for small corrections in height. (fig. 6)

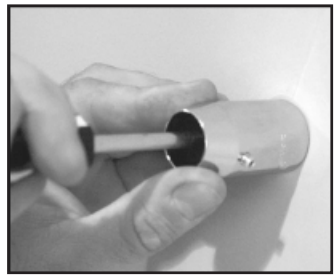
9) Hang your Zehnder Towel Radiator on the female studs. Simply lift the radiator and slide onto all four (4) studs. Tighten the set screws on all four {4) brackets. You have some leeway with the distance from the wall. Slide the radiator in or out and tighten the set screws at your desired distance. (fig. 7)



(fig. 4)



(fig. 5)



(fig. 6)

Step 5) Plug it in or hard-wire It.

1) For plug-in models, plug your radiator in to a GFCI outlet. 2) For hard-wire models, have your electrical professional wire your radiator to a GFCI service, using the Zehnder hard-wire kit. Follow the instructions enclosed with your hard-wire Kit

Step 6) Mount your Infrared Programmable Controller.

1) Locate position for IPC.

2) Detach back cover from IPC.

3) Drill hole for mounting screw, and insert anchor into hole.

4) Install screw into anchor. and screw down until slot in back plate fits snugly.

5) Reattach back plate, and slide IPC into place.

Step 7) Program your IPC and turn on your Zehnder Towel Radiator.

1) Follow the Instructions for programming your IPC.

2) Turn power on to your radiator. Wait one hour before turning on radiator with IPC.

3) Enjoy your warm, dry towel, and warm room!

(fig. 7)

Maintenance of your Zehnder Towel Radiator.

Our Towel Radiators are designed with little maintenance in mind.

We recommend shutting your unit off prior to cleaning. Cleaning of the painted surfaces or chrome is best done with a damp cloth. ***DO NOT USE CLEANSERS OR ABRASIVE PADS.*** Our chrome models can be cleaned with a window cleaner or similar non-abrasive cleaner and a soft cloth.

SAFETY PRECAUTIONS

1) ***DO NOT*** operate your Zehnder Towel Radiator with a damaged cord or plug, or after heater malfunctions or is damaged. Return to Zehnder America, for examination and service.

2) ***DO NOT*** run cord under carpeting, rugs or runners. Keep cord away from traffic areas where it can be tripped over or stepped on.

3) To disconnect/unplug heater, turn controls to off, then remove plug from outlet.

4) Connect to properly grounded outlets only. ***DO NOT USE AN EXTENSION CORD OR A 2 PRONG PLUG ADAPTER.***

5) Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electrical shock, or injury. ***DO NOT USE OUTDOORS.***

6) This heater includes a flashing red light visual alarm, at the base of unit, to warn of excessive heat or malfunction. Alarm will flash if the unit is overheating and/or the unit senses low fluid. When the alarm flashes, heater will automatically shut down. If alarm flashes, turn off unit and contact Zehnder America, inc. to reset unit and determine cause of alarm.. ***DO NOT OPERATE THE HEATER WITH ALARM FLASHING.***

7) SAVE THESE INSTRUCTIONS for future reference.

Zehnder Towel Radiator technical info for heating elements:

IMMERSION HEATER	
Supply Voltage	120V, 50/60 Hz
Normal Rating	300, 450 or 600 watts
Connection	Plug-in or direct wire
Class of protection	1 (with protective ground)
Degree of protection	IP 65
Protection against dry running (patented)	Automatic, periodic checking of minimum water level in radiator
CONTROL UNIT IPC	
Setting range of temperature	Approx. 35-70 degree centigrade
Precision of digital clock	+/- 5 minutes per year
Number of switching commands	Infinite every half hour
Shortest switching interval	1 minute
Count down timer	00:30 - 24:00 Hours
Batteries	4 x 1.5 volt (AA)
Life of Batteries	3 - 5 years
Dimension of Housing	4-1/2" x 3-1/4" x 1

Zehnder Towel Radiator Limited Warranty

Warranty is in effect when any Zehnder Towel Radiator is installed meeting all local, state and federal electrical and construction codes, and when used as Zehnder America, Inc. recommends. The LIMITED WARRANTY shall be for a period of five (5) years, and shall be limited to defects in original manufacture. Any suspected defect must be reported by registered letter immediately upon discovery. The determination of such a defect must be made by Zehnder America, Inc, or its authorized representative only. If the product is determined to be defective by Zehnder America, Inc, then Zehnder America, Inc may elect to repair or replace the defective unit. All installation/removal and shipping costs are the responsibility of the customer. This warranty is null and void if the Zehnder America, Inc product is improperly installed or operated or abused.

No other warranty, express or implied, exists for any Zehnder America, Inc. products. Incidental and consequential damages are excluded, except where prohibited by law, for any breach of any express or implied warranty, including the implied warranty of merchantability.

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